

FIG. 1A

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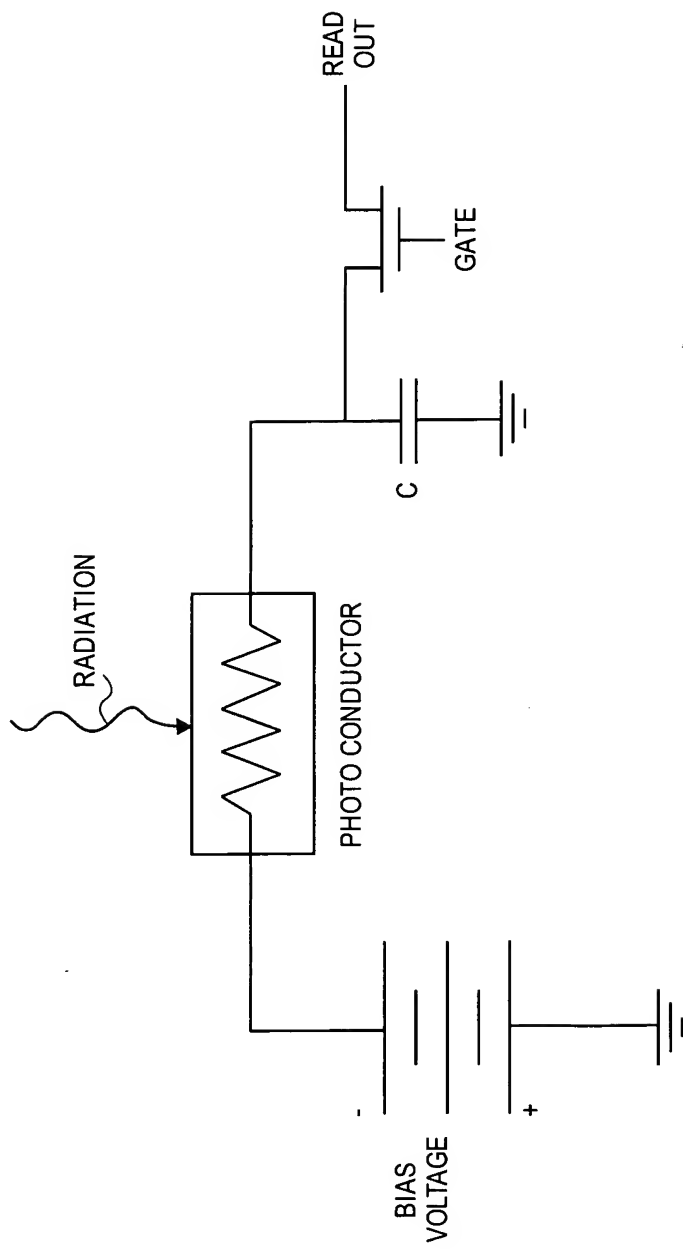


FIG. 1B

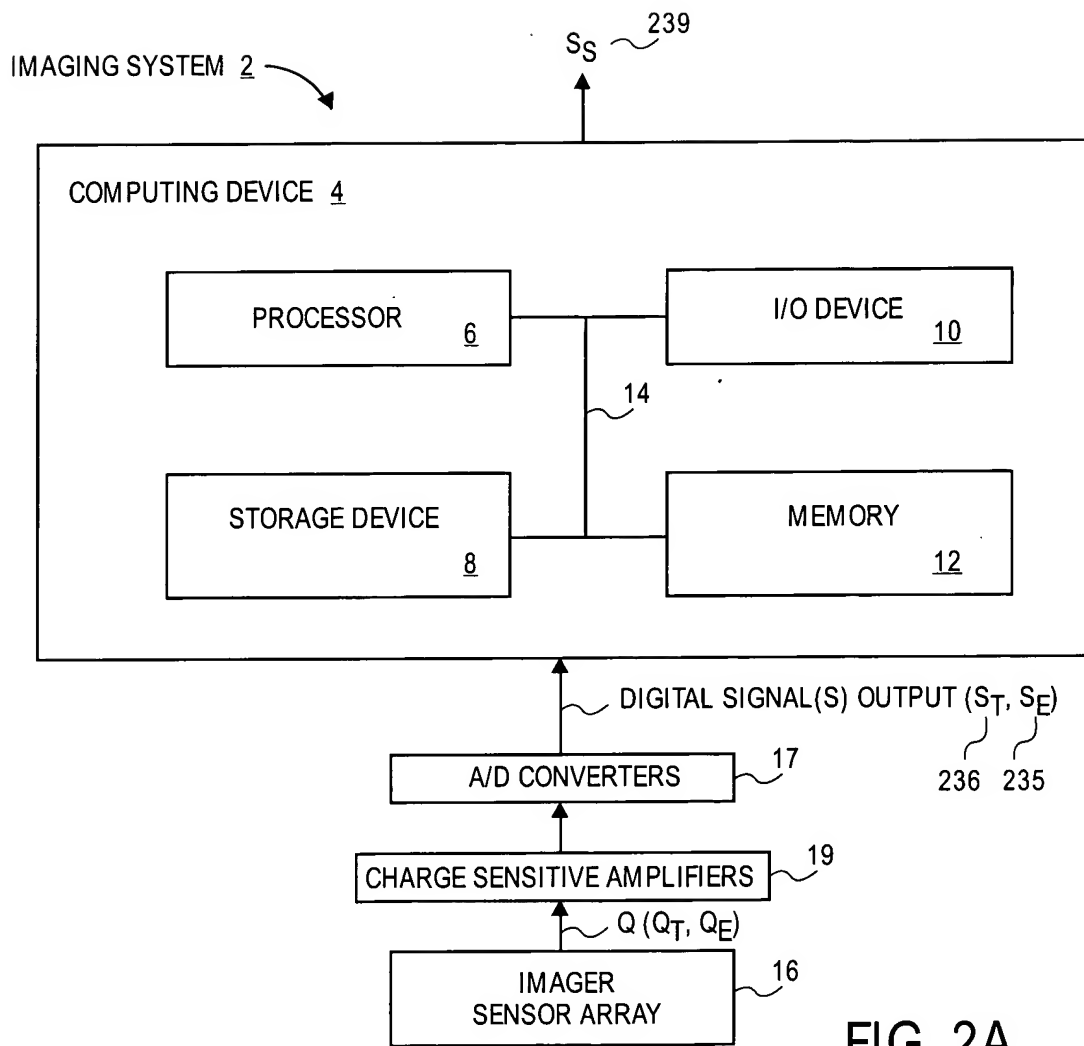


FIG. 2A

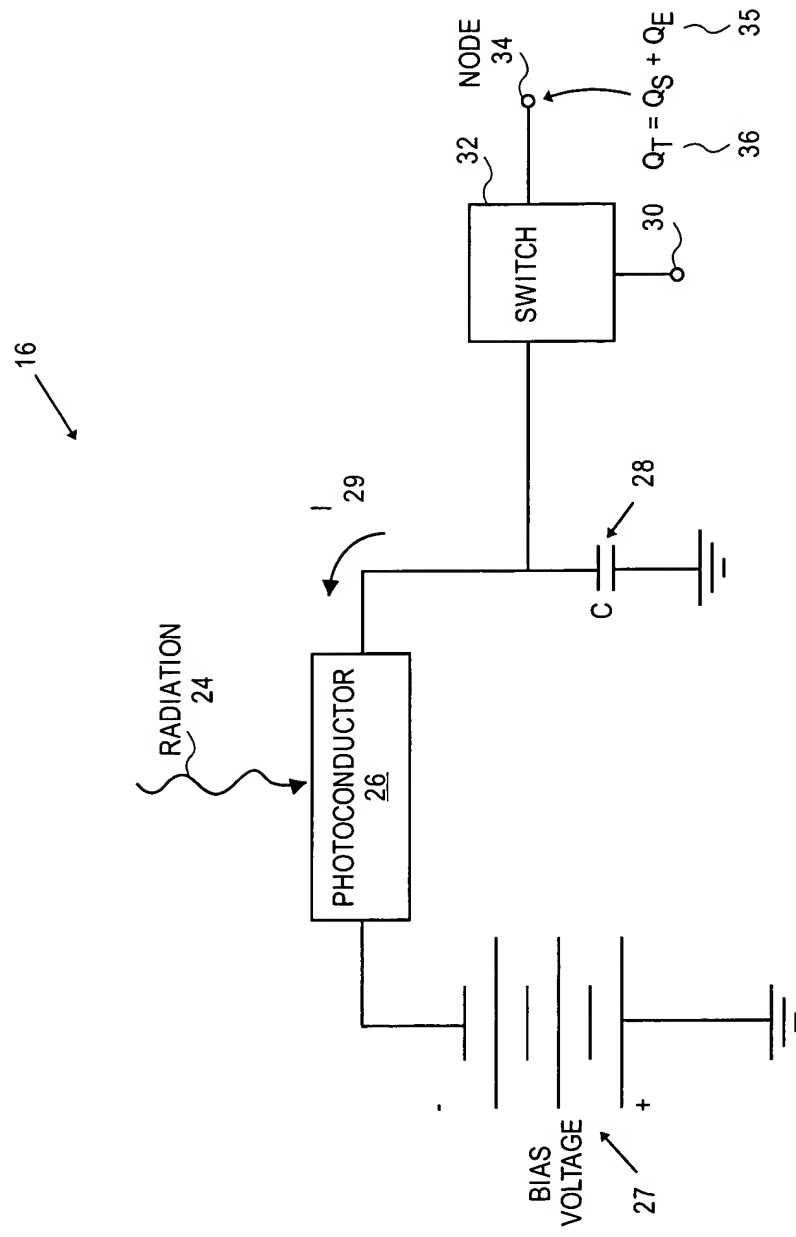


FIG. 2B

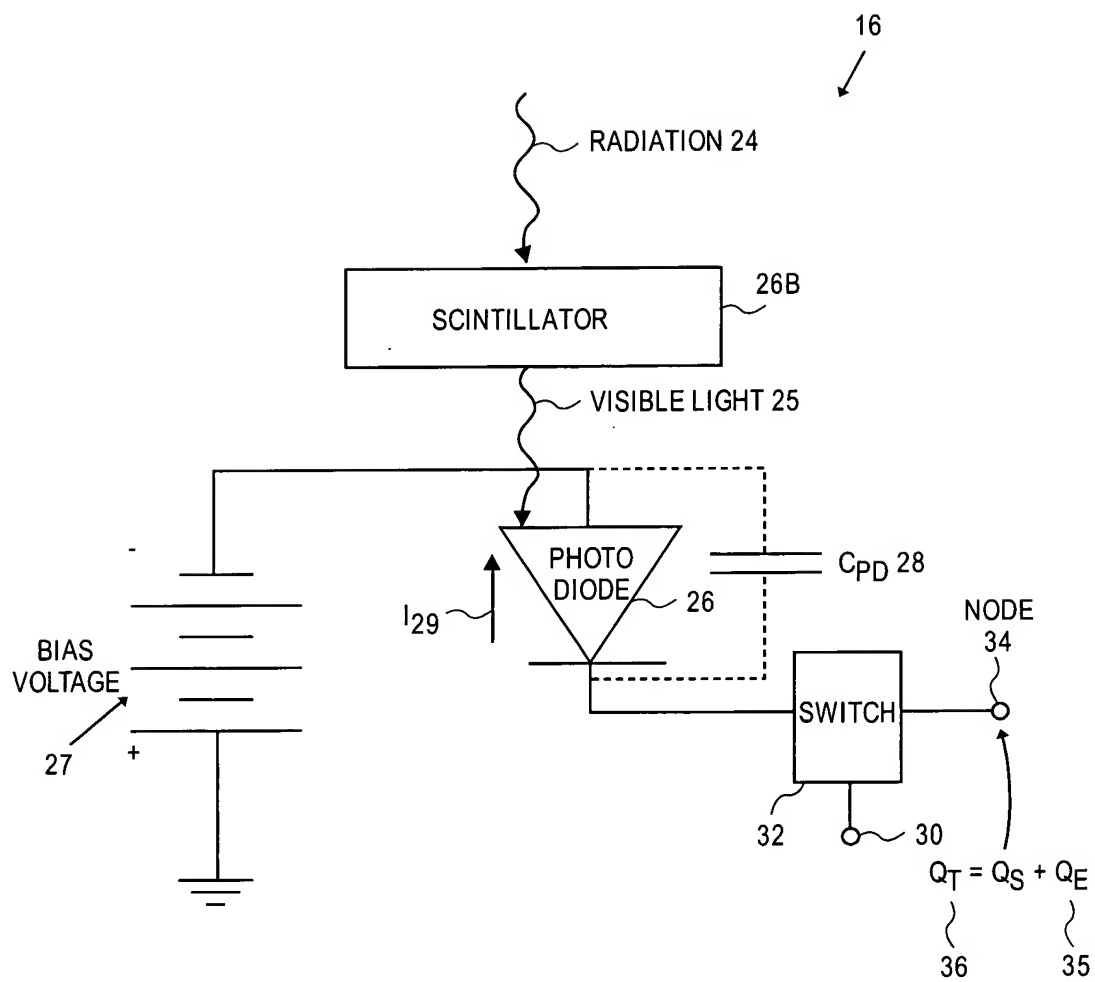


FIG. 2C

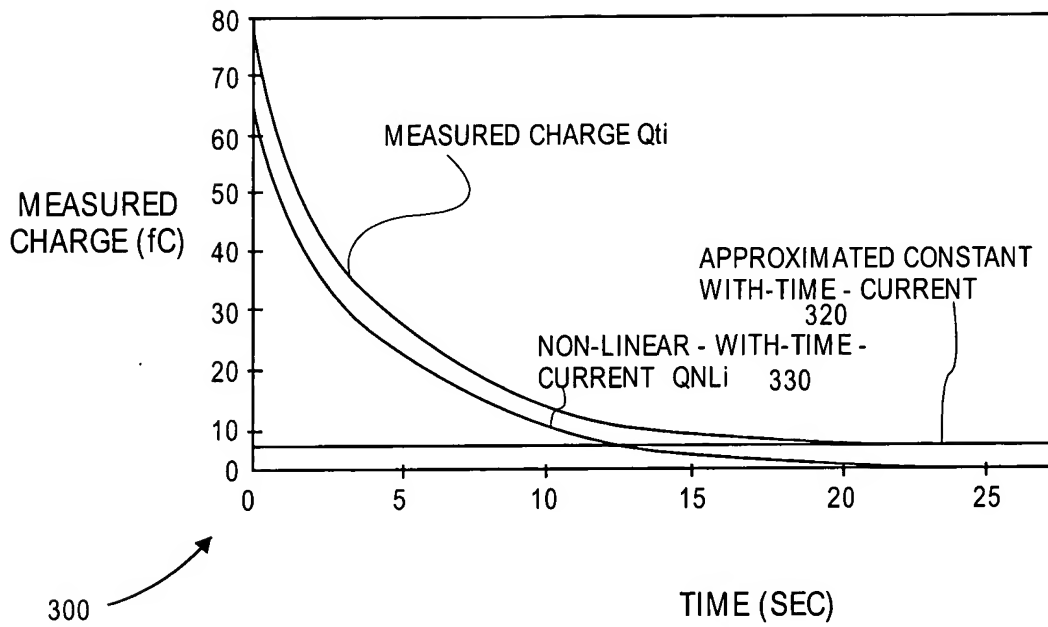


FIG. 3

$$I_E(t) = \frac{K}{t}, \quad Q_E(t) = \int_t^{t+T_i} I_E(t) dt$$

INTEGRATION TIME

FIG. 4

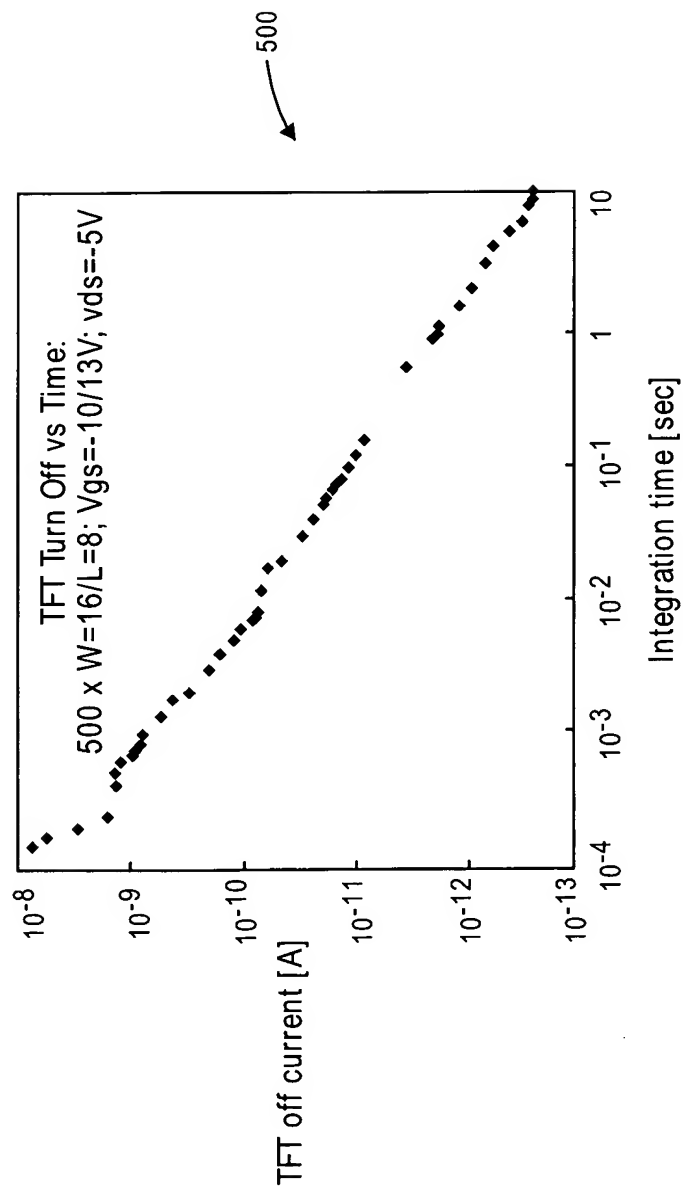


FIG. 5

$$\text{INTEGRATION TIME } T_i = \frac{1}{\text{FRAME RATE}}$$

FRAME RATE (FPS)	INTEGRATION TIME (SEC)
0.1	10
1	1
30	0.033
100	0.01

FIG. 6

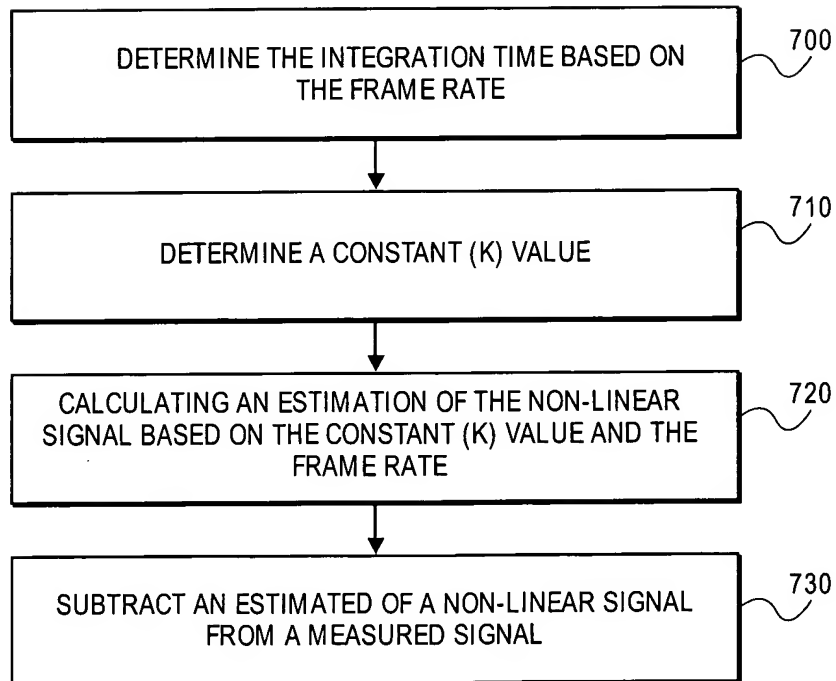


FIG. 7



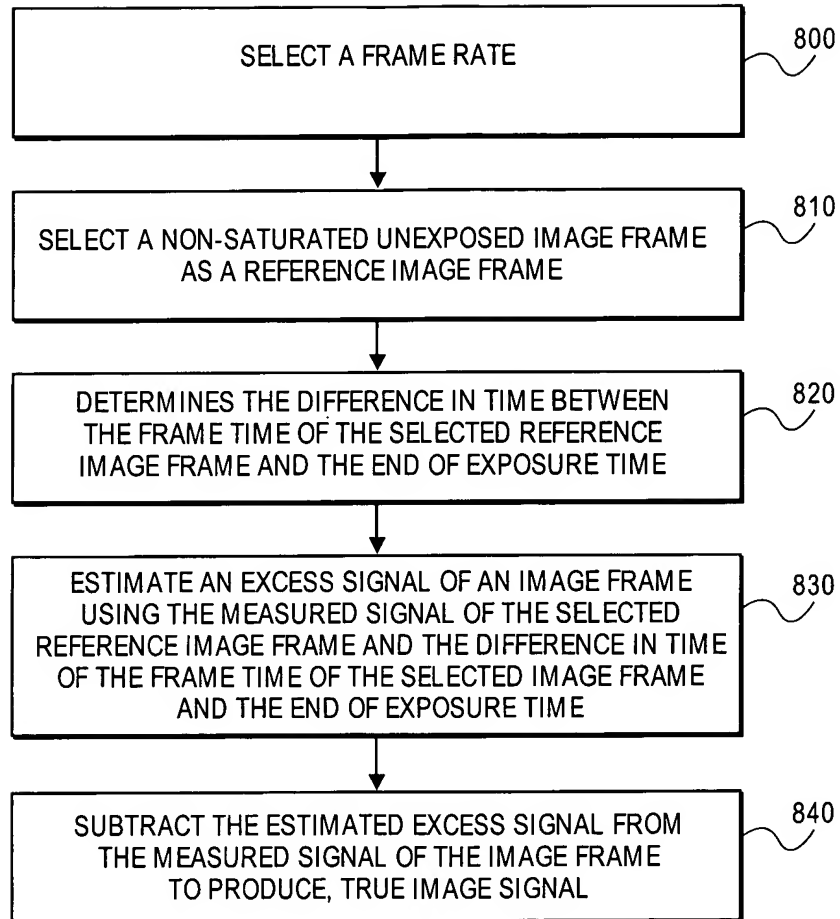


FIG. 8

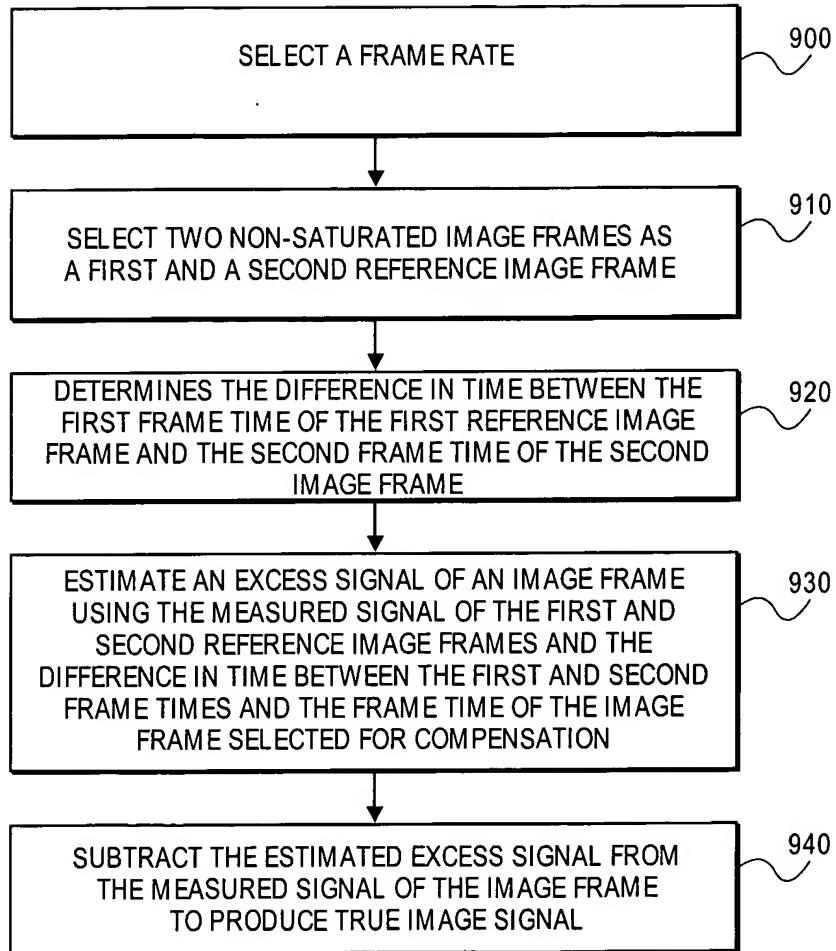
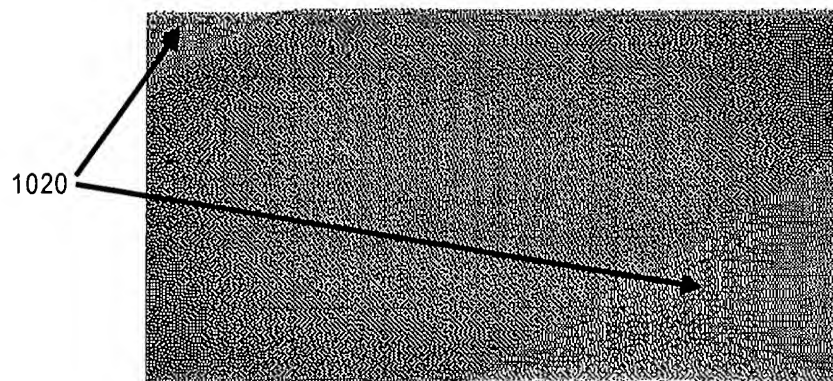
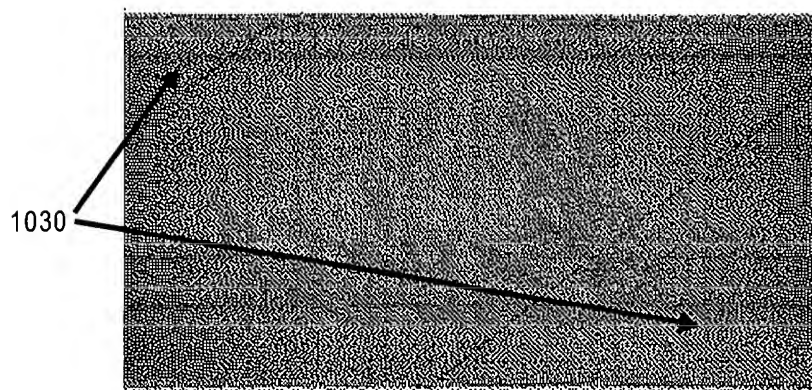


FIG. 9



UNCOMPENSATED  
FRAME F 1000

FIG. 10A



COMPENSATED  
FRAME F 1010

FIG. 10B

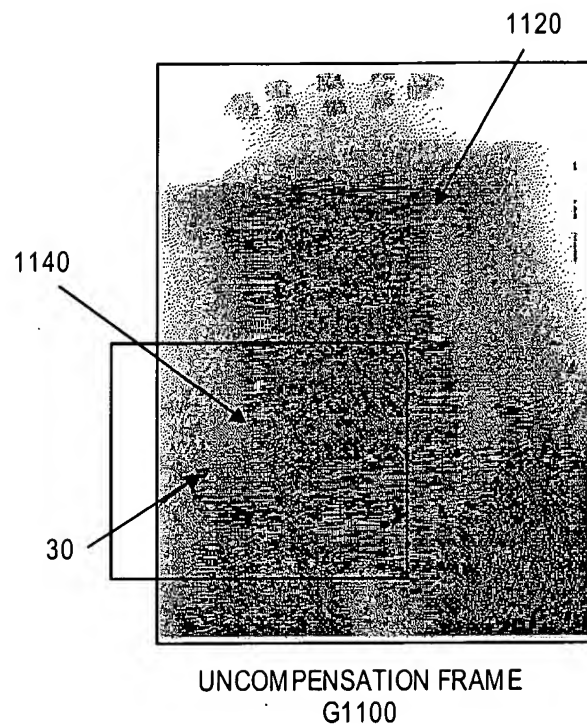


FIG. 11A

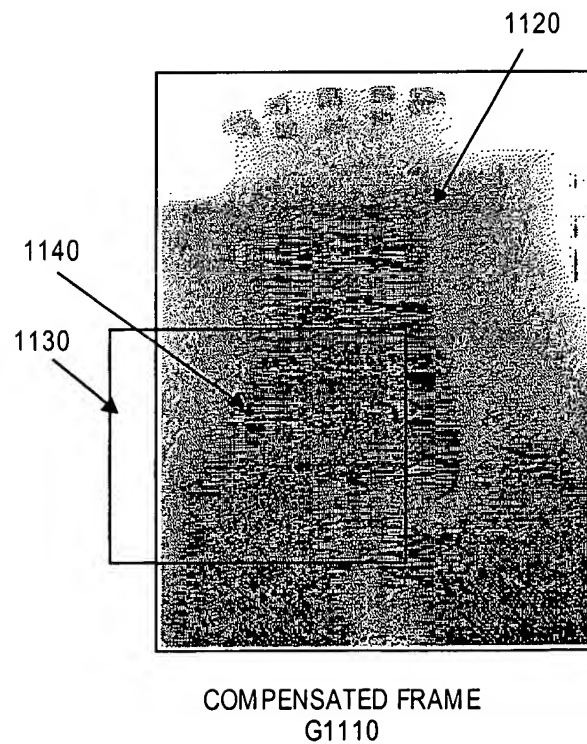


FIG. 11B

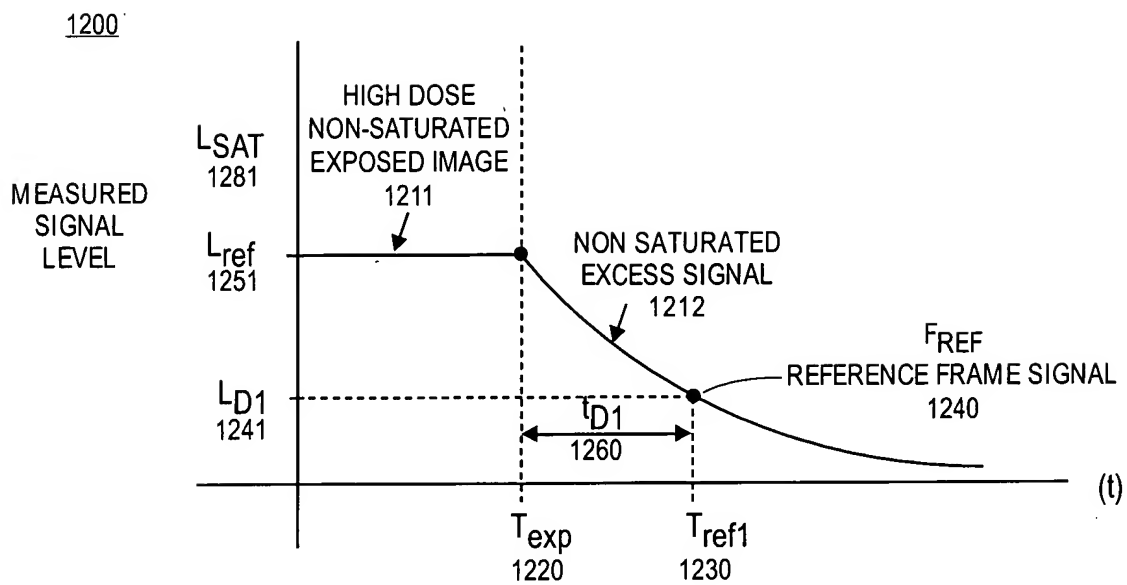


FIG. 12

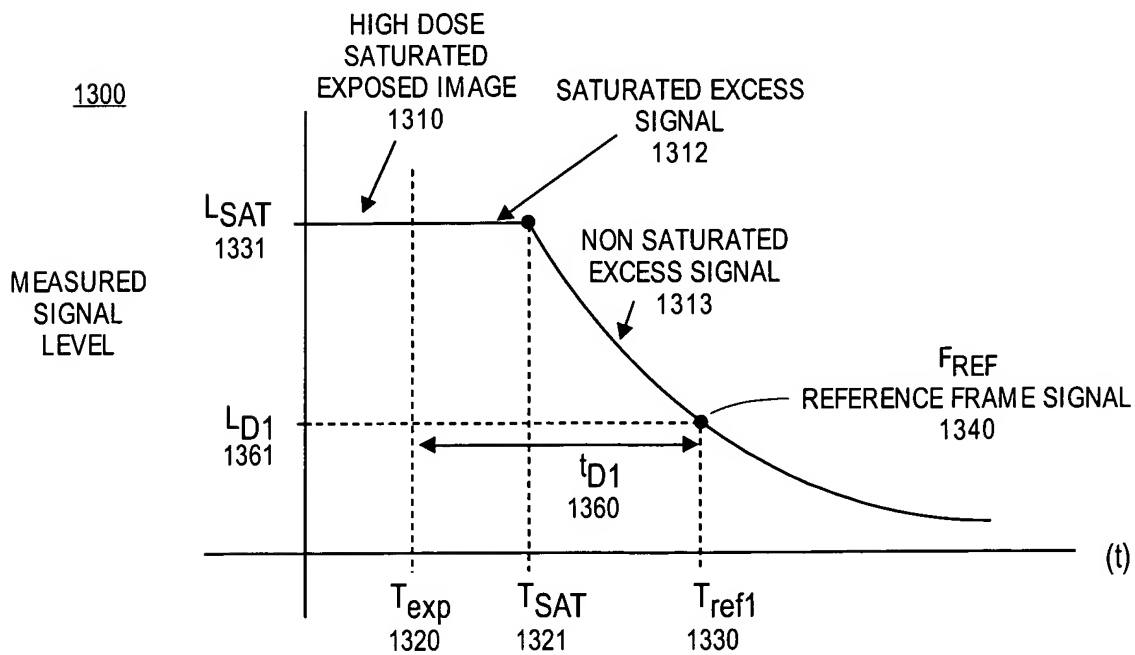
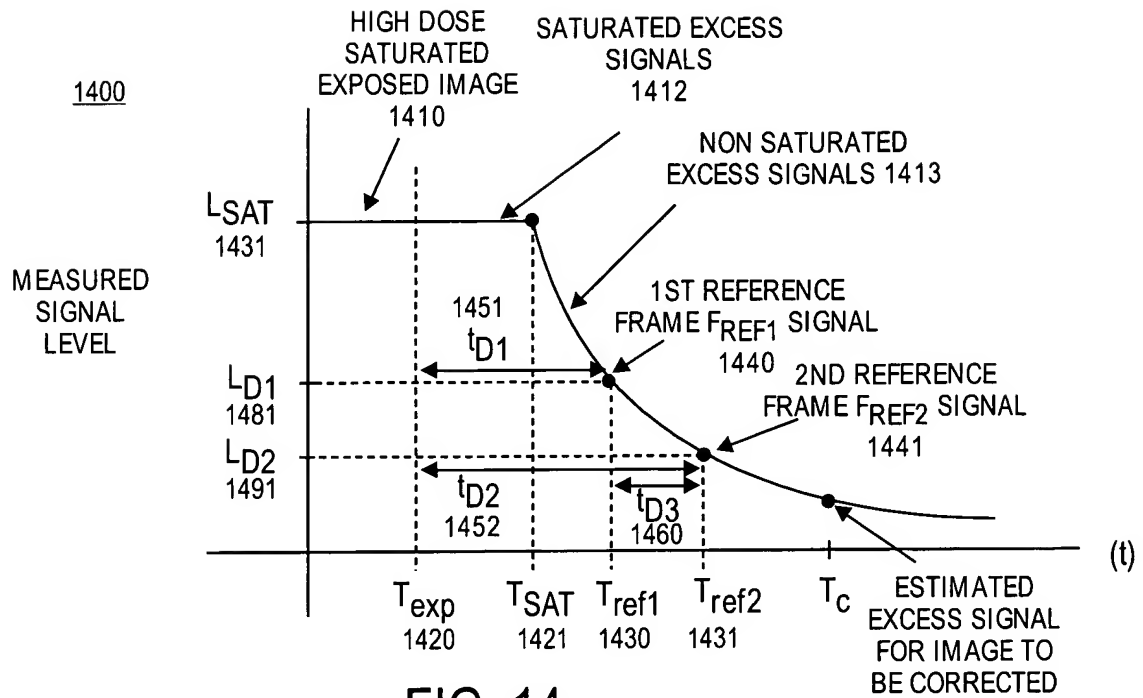


FIG. 13



1500

1510

FRAME #

	$F_i$	$F_{i+1}$	...	$F_K$
$F_{Cj}$	$F_{EC(i,j)}$	$F_{EC(i+2,j)}$	...	$F_{EC(k,j)}$
$F_{Cj+1}$	$F_{EC(i,j+H)}$	$\vdots$	... PRE-CALCULATED EXCESS SIGNAL 1530	
	$\vdots$	$\vdots$		
$F_{CL}$	$F_{EC(i,L)}$			$F_{EC(K,L)}$

REFERENCE IMAGE FRAME SIGNAL 1520

FIG. 15

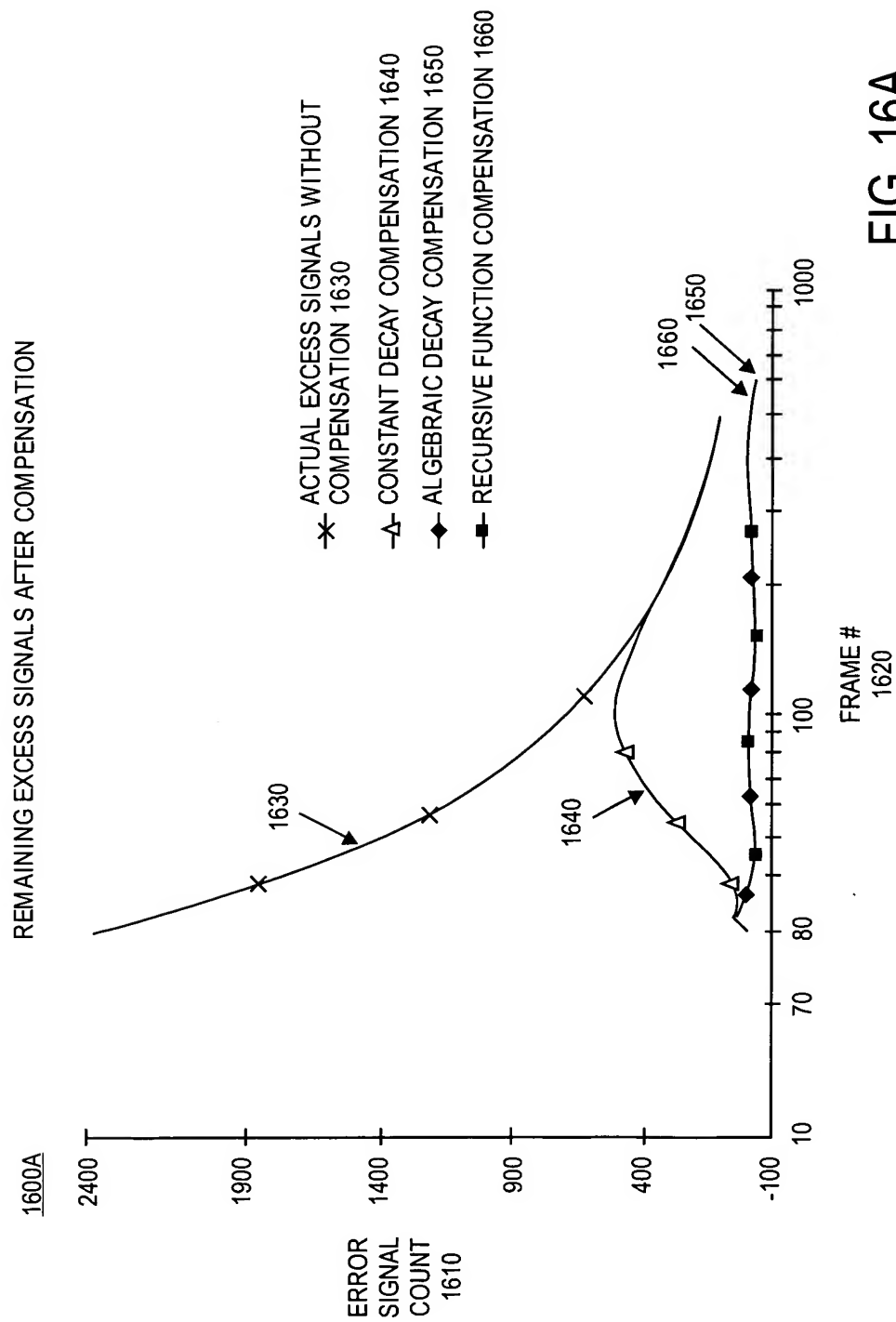


FIG. 16A

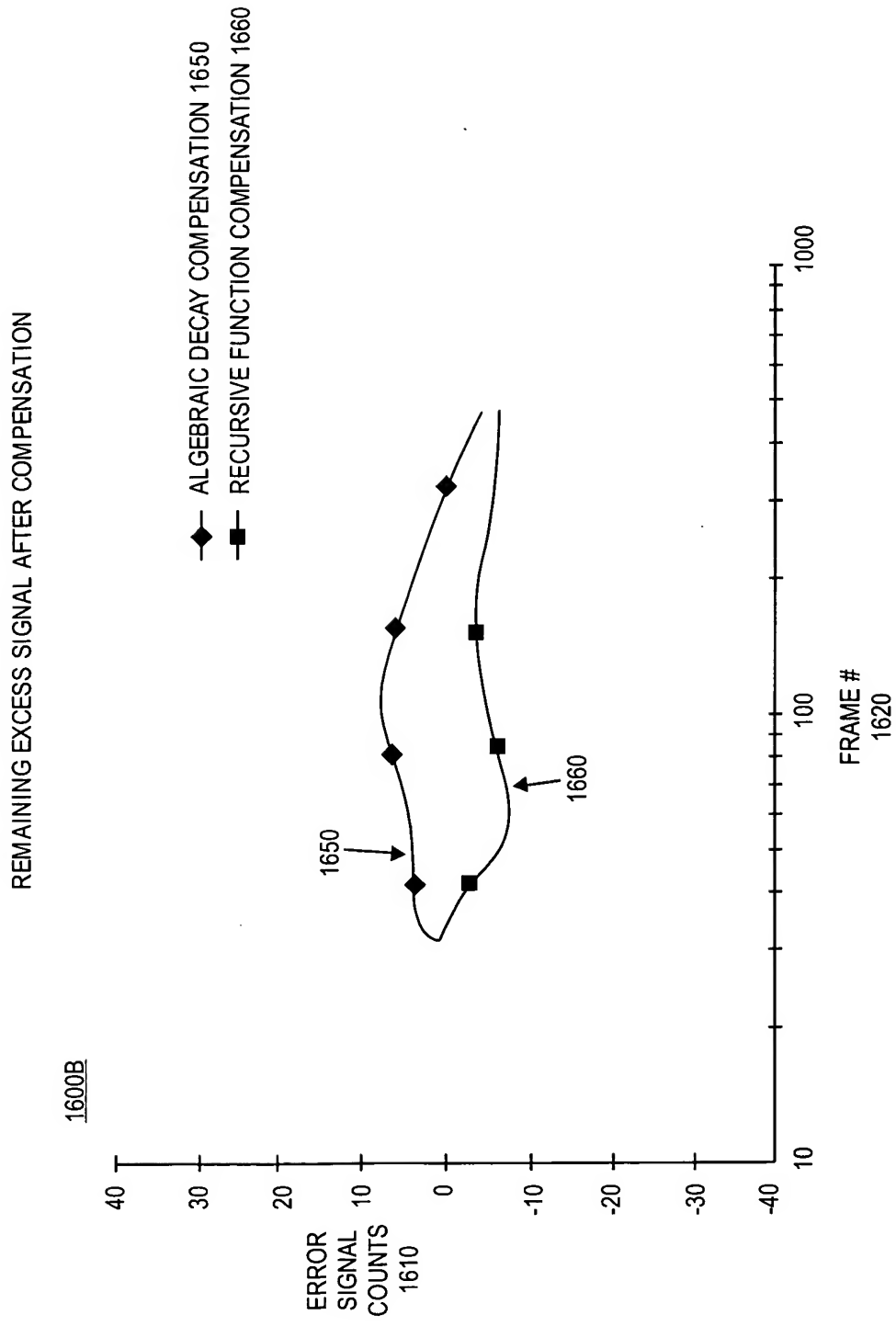


FIG. 16B



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